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 ... Mahalanobis distance scales each feature so that all ... trained networks, and the trained codebook can be ... of neighborhood neurons around a winning neuron are also ...

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... Mahalanobis distance between x and v is defined as: ... 3. Find the neuron with the closest prototype vector $c \in \Gamma$ 4. Update the codebook vectors of all neurons ...

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... The reference vectors together form a code—book . The neurons ... is high . Eventually , only few codebook vectors lie ... component of input vector of neuron i with ...

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... or outputs) y . The inputs are connected to one or more neurons in the input layer, and these are connected in further layers until they reach the output neuron ...

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B Kusumoputro, A Saptawijaya, A Murni - Proceedings Fourth International Conference on Computational ..., 2001 - [doi.ieeecomputersociety.org](#)

... cluster-neuron is calculated through Mahalanobis distance M_j ... form the optimal set of codebook vectors, where ... winning probability of each neuron is dynamically ...

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S Hawkins, H He, G Williams, R Baxter - Proceedings of the 4th International Conference on Data ..., 2002 -

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... use distance metrics such as Mahalanobis distance [2 ... of all the patterns in the codebook (identifying clusters ... output Total normal attack Index Neuron 1 Neuron ...

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... neural networks should use larger code book than the ... The output lattice dimension (codebook size) for the ... distance is adjusted from maximum neuron distance to 1 ...

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